PIONEER®
The Art of Entertainment
TOYOTA

Service Manual

ORDER NO.
CRT2195

LEXUS LS400 AUDIO SYSTEM

POWER AMPLIFIER

● **This additional service manual is designed to be used together with Model GM-8056ZT/E and GM-8256ZT/WL Service Manual CRT1626. Refer to it for finding parts numbers and adjustment,etc. which are not shown in this manual.**

VEHICLE	DESTINATION	PRODUCED AFTER	TOYOTA PART No.	ID No.	PIONEER MODEL No.
LEXUS LS400	WORLD	APRIL 1998	86280-50151	———	GM-8056ZT-92/E
LEXUS LS400	WORLD	APRIL 1998	86280-50171	———	GM-8256ZT-93/WL

Manufactured for TOYOTA
by PIONEER ELECTRONIC CORPORATION

PUB. NO. CRT2195

PACKING

Description	Part No. GM-8056ZT/E,GM-8256ZT/WL
Cover	CEG1045
Carton	CHG2410
Contain Box	CHL2410

EXPLODED VIEW

● **Parts List(Page 12)**

Mark	No.	Description	Part No. GM-8056ZT/E GM-8256ZT/WL	 GM-8056ZT-92/E GM-8256ZT-93/WL
	2	Screw	BMZ50P080FMC	Not used
	6	Bracket	CNC4995	Not used
	7	Bracket	CNC4996	Not used
	9	Cushion	CNM4096	Not used
	10	Cushion	CNM4097	Not used

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LEXUS LS400
AUDIO SYSTEM
POWER AMPLIFIER

VEHICLE	DESTINATION	PRODUCED AFTER	TOYOTA PART No.	PIONEER MODEL No.
LEXUS LS400	EUROPE U.S.A. CANADA MIDDLE EAST	November 1994	86280-50150	GM-8056ZT/E
LEXUS LS400	UNITED KINGDOM AUSTRALIA HONG KONG	November 1994	86280-50170	GM-8256ZT/WL

Manufactured for TOYOTA
by PIONEER ELECTRONIC CORPORATION

PUB. NO. CRT1626

● **GM-8056ZT,GM-8256ZT**

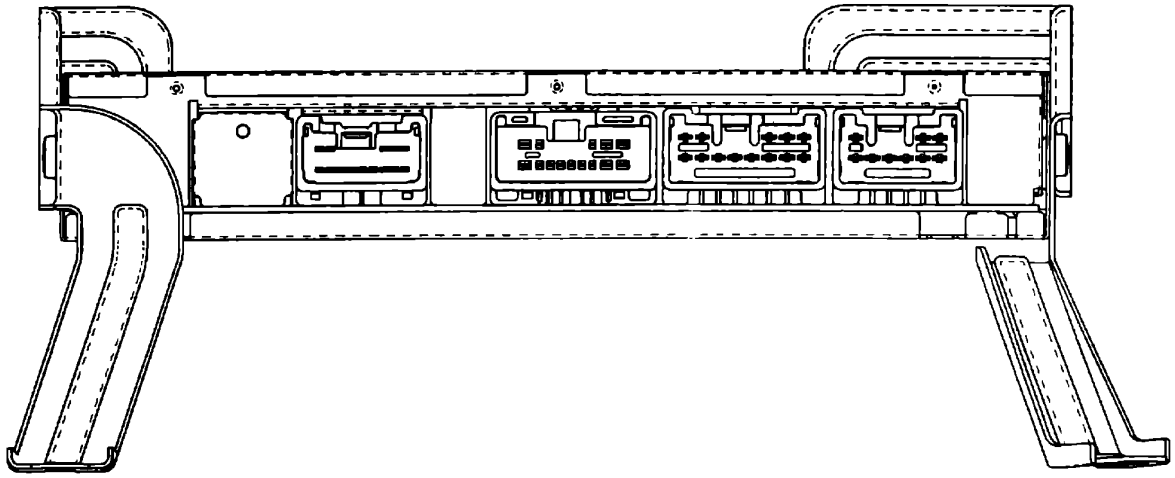

Fig.1

● **These models have been installed in LEXUS LS400.**

Model	TOYOTA PART No.	Supplementary Model
GM-8056ZT/E	86280-50150	GM-8056ZT-91/E
GM-8256ZT/WL	86280-50170	GM-8256ZT-91/WL

● **These models are used in combination with following models.**

Model	Main Unit
GM-8056ZT/E	KEX-8156ZT/UC,EW,ES
GM-8256ZT/WL	KEX-8256ZT/AU,EW,ES

● **Supplementary models are identical to the original models except for the addition of following items.**

	GM-8056ZT-91/E,GM-8256ZT-91/WL
Description	Part No.
Cover	CEG1045
Carton	CHG2538
Contain Box	CHL2538

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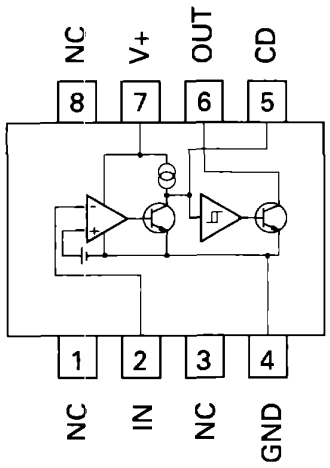
1. SPECIFICATIONS

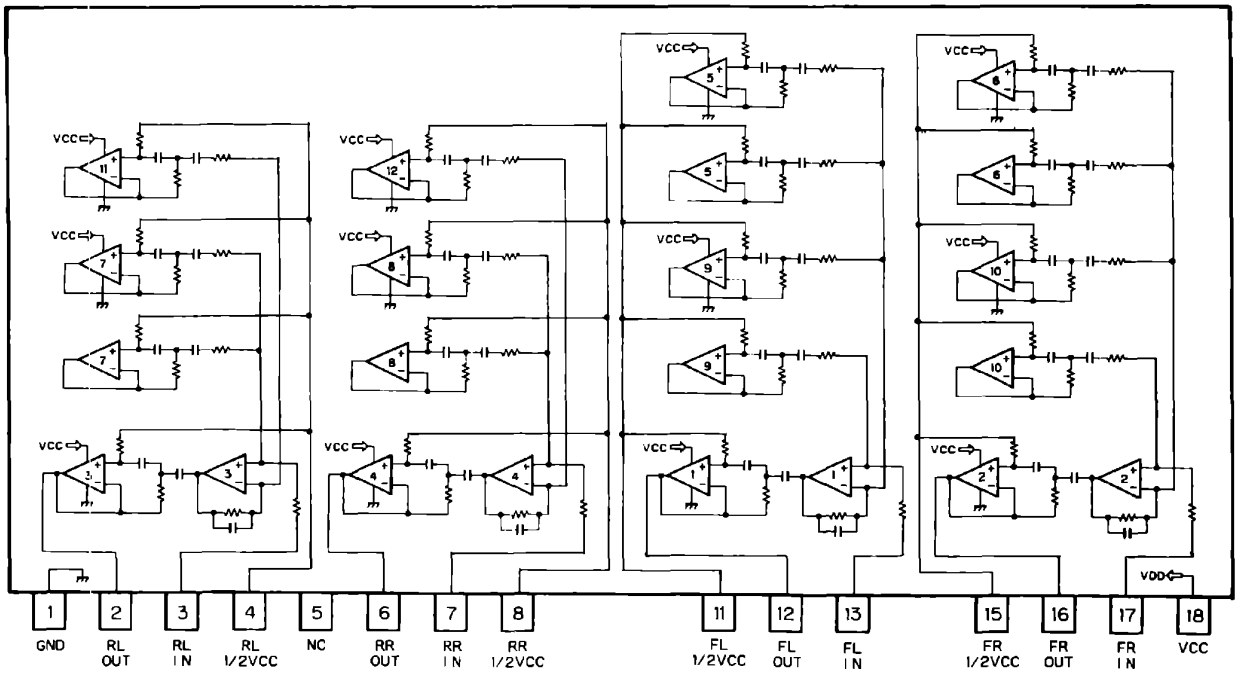
Power source ..... 13.2 V(10.5V—16.0V allowable)
Grounding system ..... Negative type
Dimensions ..... 235(W) × 40 (H) × 118 (D) mm
Weight ..... 1.13 kg
Max. power output ..... 40 W(EIAJ,FONT)
..... 30 W(EIAJ,REAR)
..... 55 W(EIAJ,WOOFER)

● ICs

M51957BFP



CWV1043,CWV1042



2. CONNECTOR FUNCTION DESCRIPTION

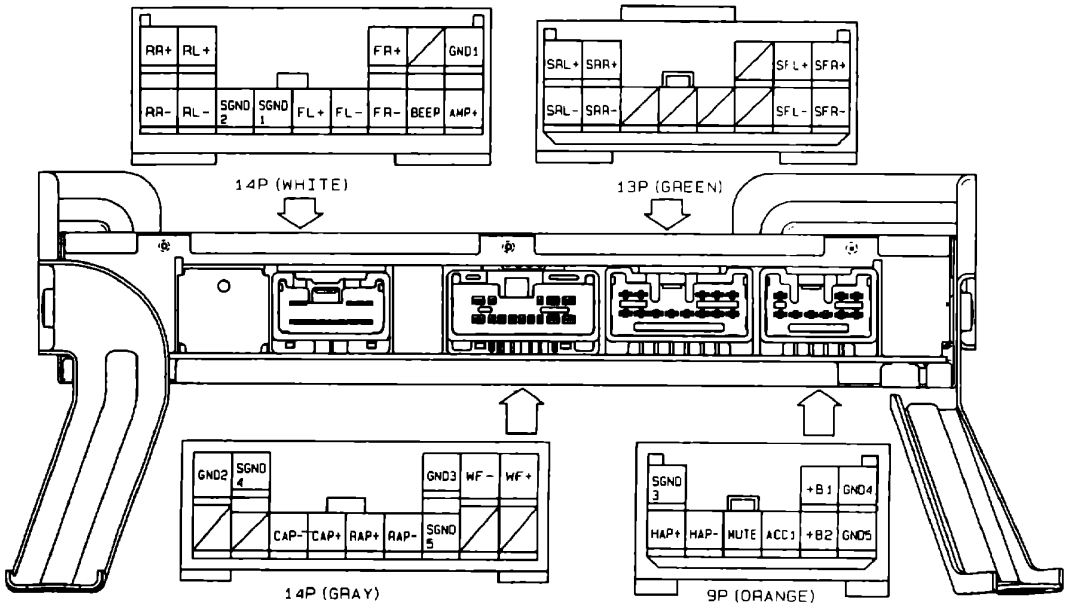


Fig.2

3. AUDIO SYSTEM

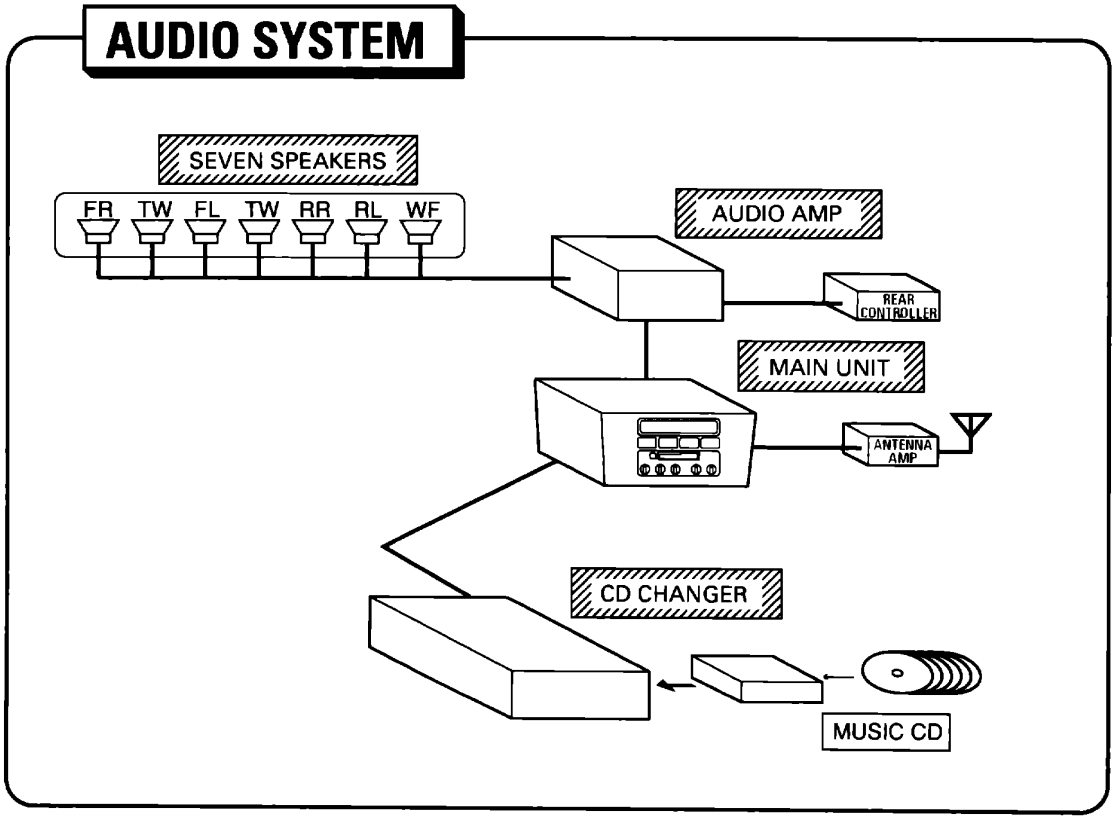


Fig.3

4. BLOCK DIAGRAM

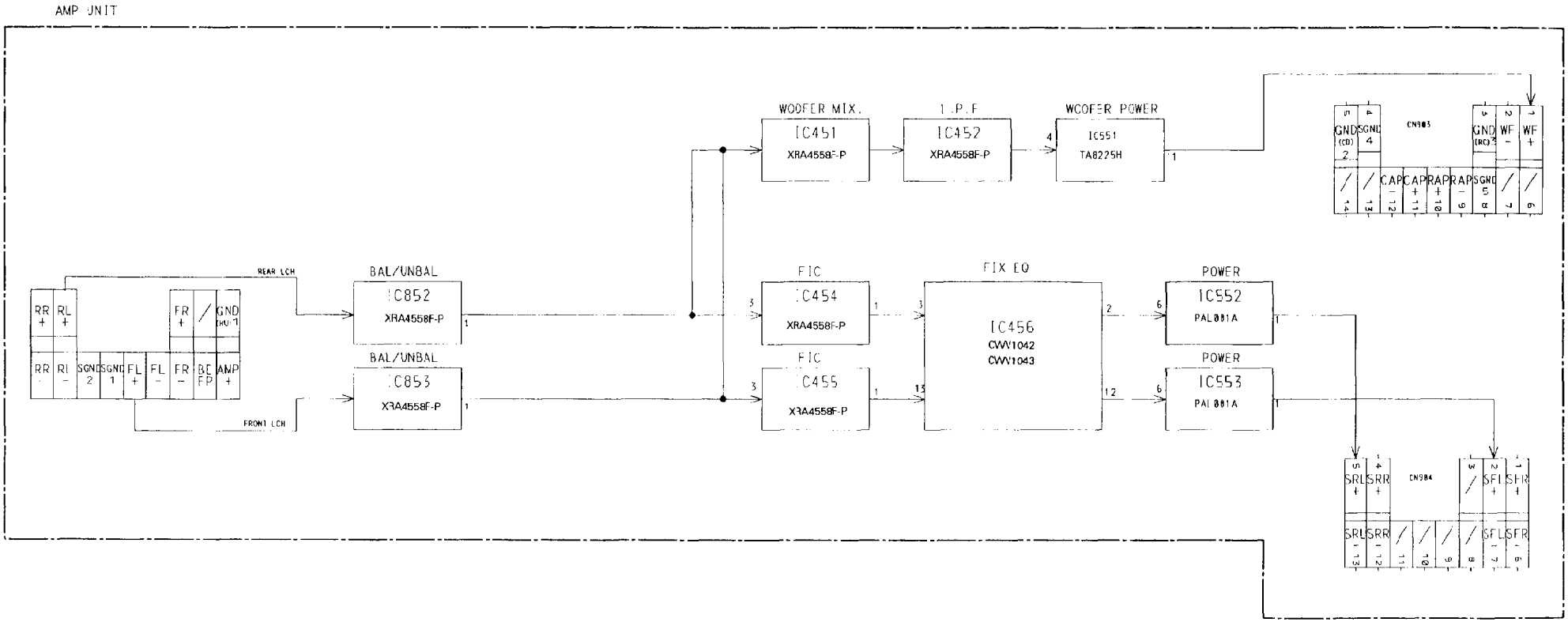
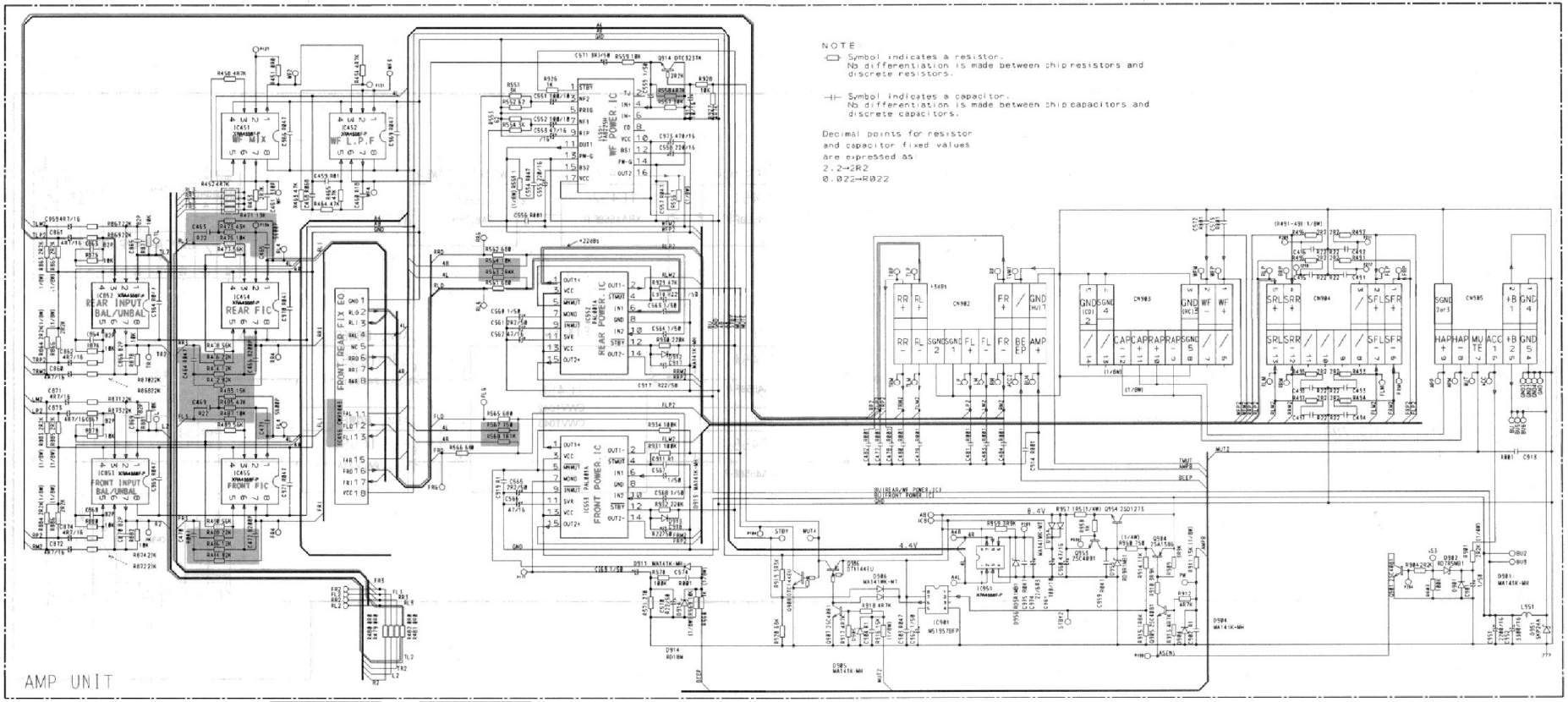


Fig.4

5. SCHEMATIC CIRCUIT DIAGRAM


NOTE
Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.
Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.
Decimal points for resistor and capacitor fixed values are expressed as
2.2→2R2
0.022→R022
AMP UNIT

	GM-8256ZT	GM-8056ZT
IC456	CMY1843	CMY1842
C465, 469	R22	R047
C464, 470	R047	R22
C466, 471	5600P	8200P
C467, 472	8200P	5600P
R471	15K	82K
R472	82K	15K
R473	43K	12K
R474	12K	43K
R475, 487	18K	72K

	GM-1256ZT	GM-0856ZT
R476, 488	22K	18K
R485	15K	82K
R486	82K	15K
R495	47K	12K
R496	12K	47K
R558	487k	485k
R561	7R40	18K
R514	18K	24K
R517	75Ω	181K
R568	181k	75Ω

Fig.5

6. CONNECTION DIAGRAM

AMP UNIT

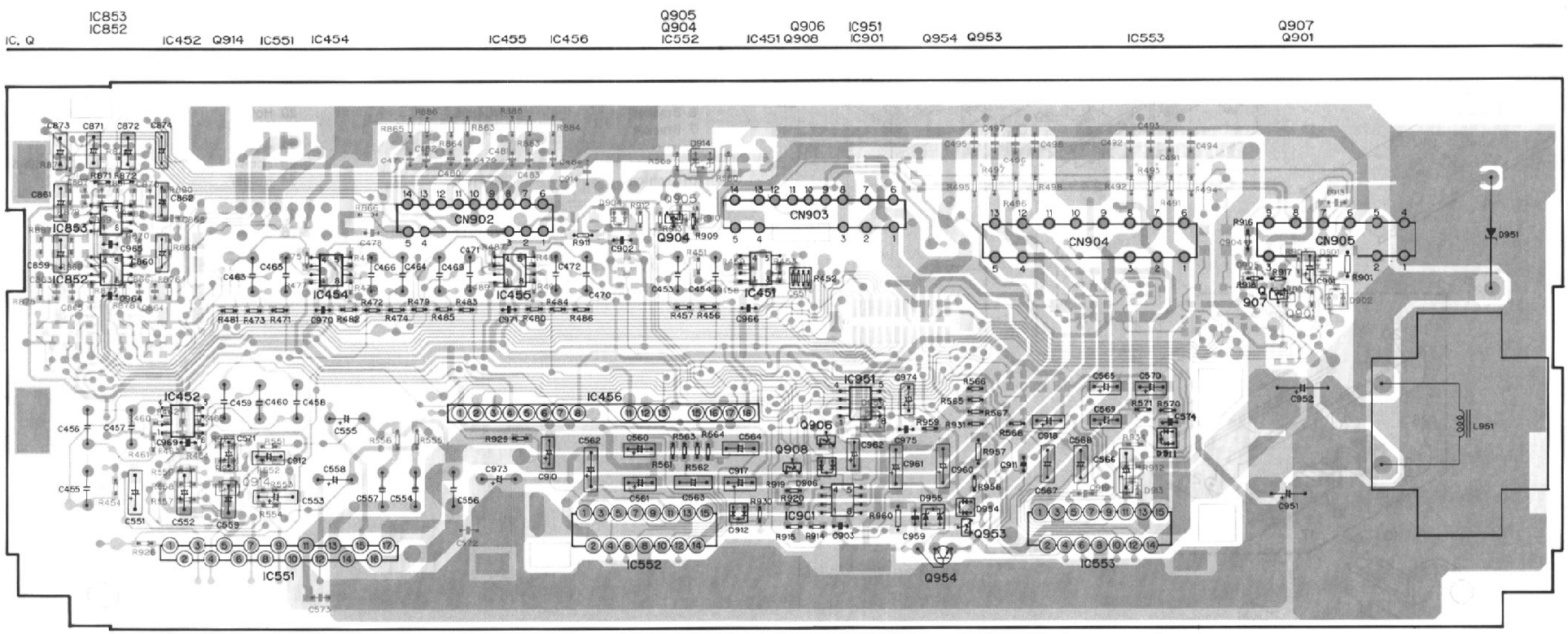


Fig.6

7. EXPLODED VIEW

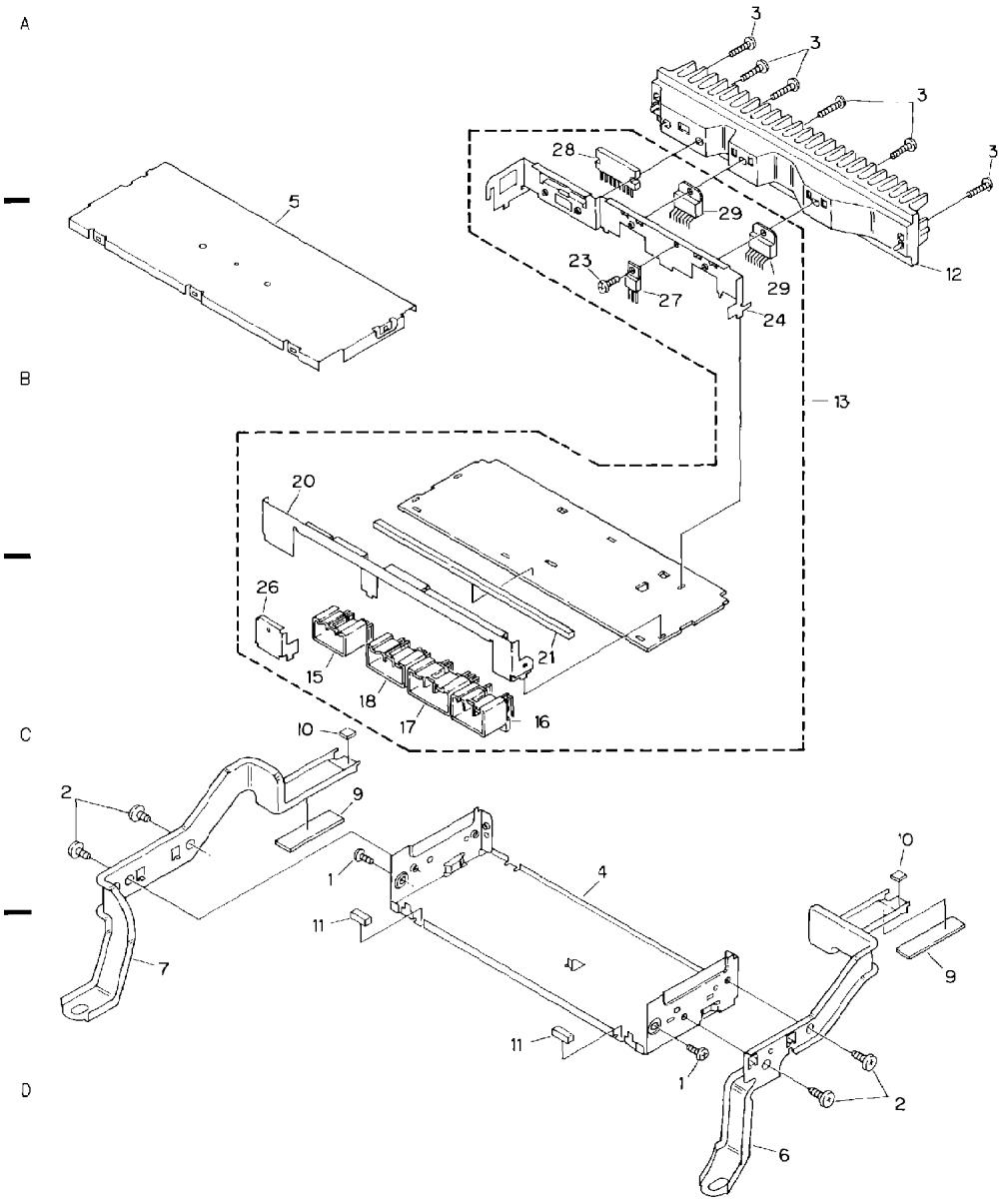


Fig.7

NOTE:

● Parts marked by "✱" are generally unavailable because they are not in our Master Spare Parts List.

● Parts List

Mark	No.	Description	Part No.
	1	Screw	BMZ30P050FMC
	2	Screw	BMZ50P080FMC
	3	Screw	CBA1327
	4	Chassis	CNA1552
	5	Case	CNB1762
	6	Bracket	CNC4995
	7	Bracket	CNC4996
	8	·····	
	9	Cushion	CNM4096
	10	Cushion	CNM4097
	11	Cushion	CNM4180
	12	Heat Sink	CNR1314
	13	Amp Unit(8056ZT)	CWM3638
		Amp Unit(8256ZT)	CWM3639
	14	·····	
	15	Connector(CN902)	CKM1124
	16	Connector(CN905)	CKM1125
	17	Connector(CN904)	CKM1126
	18	Connector(CN903)	CKM1127
	19	·····	
	20	Holder	CNC4994
	21	Spacer	CNM3852
	22	·····	
	23	Screw	BMZ30P060FMC
	24	Holder	CNC4992
	25	·····	
	26	Cover	CNC5012
	27	Transistor(Q954)	2SD1273
	28	IC(IC551)	TA8225H
	29	IC(IC552,553)	PAL001A

8. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/○S○○○J,RS1/○○S○○○J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

=====Circuit Symbol & No. Part Name=====	Part No.
Unit Number : CWM3638(GM-8056ZT/E)	
Unit Name : Amp Unit	
MISCELLANEOUS	
IC 451 452 454 455 852 853 951	XRA4558F-P
IC 456	CWV1042
IC 551	TA8225H
IC 552 553	PAL001A
IC 901	M51957BFP
Q 901 905	2SC4081
Q 904	2SA1586
Q 906	DTA144EU
Q 907 953	2SC4081
Q 908	DTC144EU
Q 914	DTC323TK
Q 954	2SD1273
D 901 904 905 911 913	MA141K
D 902	RD7R5M
D 906 954	MA141WK
D 912	MA141K
D 914	RD18M
D 951	5KP24A
D 955	RD9R1M
D 956	RD5R1M
L 951	CTH1126
RESISTORS	
R 451	RS1/10S0R0J
R 452	RA4C472J
R 453	RS1/10S272J
R 454 458 912 913 927	RS1/10S472J
R 463 464 465	RS1/10S473J
R 471	RN1/10SE823D
R 472	RN1/10SE133D
R 473	RN1/10SE123D
R 474	RN1/10SE433D
R 475 487	RN1/10SE223D
R 476 488	RN1/10SE103D
R 477 478 489 490	RN1/10SE563D
R 479 480 481 482	RS1/10S0R0J
R 483	RN1/10SE823D
R 484	RN1/10SE153D
R 485	RN1/10SE123D
R 486	RN1/10SE473D
R 491 492 493 494 495 496 497 498	RS1/8S2R2J
R 551 554	RS1/10S302J
R 552 553	RS1/10S620J
R 555 556	RS1/8S1R0J
R 557	RS1/10S303J
R 558	RS1/10S432J
R 559 928	RS1/10S103J
R 560	RS1/8S102J

=====Circuit Symbol & No. Part Name=====	Part No.
R 561 562 565 566	RN1/10SE681D
R 563	RN1/10SE103D
R 564	RN1/10SE242D
R 567	RN1/10SE112D
R 568	RN1/10SE751D
R 569	RS1/8S103J
R 570	RS1/10S104J
R 571	RS1/10S271J
R 863 864 865 866 883 884 885 886	RS1/8S222J
R 867 868 869 870 871 872 873 874	RS1/10S223J
R 875 876 877 878 879 880 881 882	RS1/10S103J
R 901	RS1/4S222J
R 903 934	RS1/10S104J
R 904	RS1/10S222J
R 909 959	RS1/10S392J
R 910	RS1/10S392J
R 911	RS1/8S153J
R 914	RS1/10S113J
R 915	RS1/10S182J
R 916	RS1/8S153J
R 917 918	RS1/10S472J
R 919	RS1/10S332J
R 920	RS1/10S683J
R 926	RS1/10S102J
R 929	RS1/10S473J
R 930	RS1/10S224J
R 931	RS1/10S104J
R 932	RS1/10S224J
R 957	RS1/4S1R5J
R 958	RS1/10S102J
R 960	RS1/4S751J
CAPACITORS	
C 451	CCSQCH331J50
C 458	CFTNA683J50
C 459	CQMA103J50
C 460	CFTNA184J50
C 463 469	CFTNA473J50
C 464 470	CFTNA224J50
C 465 471	CQMA822J50
C 466 472	CQMA562J50
C 477 478 479 480 481 482	CKSQYB102K50
C 483 484	CKSQYB102K50
C 491 492 493 494 495 496 497 498	CKSYB224K16
C 551 552 961	CEV101M10
C 553 562 566 960	CEV470M16
C 554 557	CFTNA473J50
C 555 558	CEAS221M16
C 556	CQMA102J50
C 559 563 564 567 568	CEVNP010M50
C 560 569 901 962	CEV010M50
C 561 565	CEV2R2M50
C 570	CEVR22M50

=====Circuit Symbol & No. Part Name=====	Part No.
C 571	CEV3R3M50
C 572 573	CKSYB102K50
C 859 860 861 862 871 872	CEVNP4R7M16
C 863 864 865 866 867 868 869 870	CCSQCH820J50
C 873 874	CEVNP4R7M16
C 902	CKSYB104K16
C 903 959 964 965 966 969 970 971	CKSQYB473K16
C 904	CKSYB104K16
C 910 917 918	CEVR22M50
C 911	CKSQYB104K16
C 912	CEV100M16
C 919	CKSQYB104K16
C 951	CEAS222M16
C 952	CEAS332M16
C 973	CCH1183
C 974	CEV220M6R3
C 975	CKSQYB473K16
Unit Number : CWM3639(GM-8256ZT/WL)	
Unit Name : Amp Unit	
MISCELLANEOUS	
IC 451 452 454 455 852 853 951	XRA4558F-P
IC 456	CWV1043
IC 551	TA8225H
IC 552 553	PAL001A
IC 901	M51957BFP
Q 901 905	2SC4081
Q 904	2SA1586
Q 906	DTA144EU
Q 907 953	2SC4081
Q 908	DTC144EU
Q 914	DTC323TK
Q 954	2SD1273
D 901 904 905 911 913	MA141K
D 902	RD7R5M
D 906 954	MA141WK
D 912	MA141K
D 914	RD18M
D 951	5KP24A
D 955	RD9R1M
D 956	RD5R1M
L 951	CTH1126
RESISTORS	
R 451	RS1/10S0R0J
R 452	RA4C472J
R 453	RS1/10S272J
R 454 458 912 913 927	RS1/10S472J
R 463 464 465	RS1/10S473J
R 471	RN1/10SE133D
R 472 484	RN1/10SE823D
R 473	RN1/10SE433D
R 474 486	RN1/10SE123D
R 475 487	RN1/10SE103D
R 476 488	RN1/10SE223D
R 477 478 489 490	RN1/10SE563D
R 479 480 481 482	RS1/10S0R0J
R 483	RN1/10SE153D
R 485	RN1/10SE473D
R 491 492 493 494 495 496 497 498	RS1/8S2R2J
R 551 554	RS1/10S302J
R 552 553	RS1/10S620J
R 555 556	RS1/8S1R0J
R 557	RS1/10S303J

=====Circuit Symbol & No. Part Name=====	Part No.
R 558	RS1/10S472J
R 559 928	RS1/10S103J
R 560	RS1/8S102J
R 561 562 565 566	RN1/10SE681D
R 563	RN1/10SE242D
R 564	RN1/10SE103D
R 567	RN1/10SE751D
R 568	RN1/10SE112D
R 569	RS1/8S103J
R 570	RS1/10S104J
R 571	RS1/10S271J
R 863 864 865 866 883 884 885 886	RS1/8S222J
R 867 868 869 870 871 872 873 874	RS1/10S223J
R 875 876 877 878 879 880 881 882	RS1/10S103J
R 901	RS1/4S222J
R 903 934	RS1/10S104J
R 904	RS1/10S222J
R 909 959	RS1/10S392J
R 910	RS1/10S392J
R 911	RS1/8S153J
R 914	RS1/10S113J
R 915	RS1/10S182J
R 916	RS1/8S153J
R 917 918	RS1/10S472J
R 919	RS1/10S332J
R 920	RS1/10S683J
R 926	RS1/10S102J
R 929	RS1/10S473J
R 930	RS1/10S224J
R 931	RS1/10S104J
R 932	RS1/10S224J
R 957	RS1/4S1R5J
R 958	RS1/10S102J
R 960	RS1/4S751J
CAPACITORS	
C 451	CCSQCH331J50
C 458	CFTNA683J50
C 459	CQMA103J50
C 460	CFTNA184J50
C 463 469	CFTNA224J50
C 464 470 554 557	CFTNA473J50
C 465 471	CQMA562J50
C 466 472	CQMA822J50
C 477 478 479 480 481 482	CKSQYB102K50
C 483 484	CKSQYB102K50
C 491 492 493 494 495 496 497 498	CKSYB224K16
C 551 552 961	CEV101M10
C 553 562 566 960	CEV470M16
C 555 558	CEAS221M16
C 556	CQMA102J50
C 559 563 564 567 568	CEVNP010M50
C 560 569 901 962	CEV010M50
C 561 565	CEV2R2M50
C 570	CEVR22M50
C 571	CEV3R3M50
C 572 573	CKSYB102K50
C 859 860 861 862 871 872	CEVNP4R7M16
C 863 864 865 866 867 868 869 870	CCSQCH820J50
C 873 874	CEVNP4R7M16
C 902	CKSYB104K16
C 903 959 964 965 966 969 970 971	CKSQYB473K16
C 904	CKSYB104K16
C 910 917 918	CEVR22M50
C 911	CKSQYB104K16
C 912	CEV100M16

=====Circuit Symbol & No. Part Name=====	Part No.
C 919	CKSQYB104K16
C 951	CEAS222M16
C 952	CEAS332M16
C 973	CCH1183
C 974	CEV220M6R3
C 975	CKSQYB473K16

● **Jigs**

Product	Extension cable	External harness	Necessary products for repair
GM-8056ZT GM-8256ZT	----	System harness GGD1074 Speaker harness GGD1076	KEX-P8156ZT or KEX-P8256ZT

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